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ABSTRACT OF THE DISCLOSURE

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BEST AVAILABLE COPY**ABSTRACT OF THE DISCLOSURE**

A redundant structure control device for an (N+1) redundant structure exchange, capable dealing with line trouble and line interface device trouble. When line trouble is detected frame tag attaching is arranged so a frame coming from a line interface device originally connected with a troubled line toward the troubled line may be sent to a spare line. When a troubled line interface device is detected, frame tag attaching is arranged so that a frame coming from a line originally connected with the troubled line interface device be sent to a spare line interface device and a frame coming from the spare line interface device may flow to the line originally connected with the troubled line interface device, and instructs the change of a cell tag coming from an ATM switch toward the troubled line interface device, to a value indicating that the cell be sent to the spare line interface device.